

CLAIMS

Now, therefore, the following is claimed:

- 1 1. A system which communicates pollution information messages,
2 comprising:
3 at least one transceiver having a first identification code and coupled to a
4 detector configured to detect pollution, the transceiver configured to generate a
5 pollution information message,
6 a transceiver network, the transceiver network further comprising:
7 a plurality of network transceivers, each network transceiver
8 having a unique identification code and configured to communicate the
9 pollution information message with other network transceivers;
10 at least one transceiver unit configured to communicate the
11 pollution information message with at least one of the network
12 transceivers; and
13 at least one site controller coupled to the transceiver unit, the
14 site controller configured to communicate the pollution information
15 message between the transceiver unit and an intermediary
16 communication system such that the pollution information message is
17 communicated with a pollution monitoring management controller
18 coupled to the intermediary communication system.
- 1 2. The system of claim 1, wherein the intermediary communication
2 system further comprises a portion of an Internet.
- 1 3. The system of claim 1, wherein the intermediary communication
2 system further comprises a portion of a digital communication system.
- 1 4. The system of claim 1, wherein the intermediary communication
2 system further comprises a portion of a public switched telephone network.

1 5. The system of claim 1, wherein the intermediary communication
2 system further comprises a combination of portions of at least an Internet, a digital
3 communication system and a public switched telephone network.

1 6. The system of claim 1, wherein the intermediary communication
2 system further comprises a combination of portions of at least an Internet and a public
3 switched telephone network.

1 7.. The system of claim 1, wherein the intermediary communication
2 system further comprises a combination of portions of at least an Internet and a digital
3 communication system.

1 8. The system of claim 1, wherein the intermediary communication
2 system further comprises a combination of portions of at least a digital
3 communication system and a public switched telephone network.

1 9. The system of claim 1, wherein the transceiver is coupled to a pollution
2 detecting device and is configured to generate the pollution information message in
3 response to a signal received from the pollution detecting device.

1 10. The system of claim 1, further comprising a memory residing in each
2 one of the network transceivers and the transceiver such that a communication
3 transmission path is defined by at least one of the unique identification codes of the
4 network transceivers and the first identification code of the transceiver, the
5 communication transmission path being used to identify a location of the transceiver.

1 11. The system of claim 1, further comprising a memory residing in the
2 transceiver such that the first identification code resides in the memory and such that
3 the first identification code is included as a portion of the pollution information
4 message, whereby the first identification code is used to identify the nature of the
5 pollution.

1 12. The system of claim 1, further comprising a second transceiver having
2 a second identification code and coupled to an electric distribution system, the second
3 transceiver configured to communicate pollution information with the detector using a
4 power line carrier (PLC) signal communicated over the electric distribution system,
5 and further configured to communicate the pollution information message with at
6 least one of the network transceivers.

1 13. A system which communicates a pollution information message
2 generated by a transceiver having a unique identification code, comprising:
3 an interface configured to receive the pollution information message
4 communicated though an intermediary communication system coupled to the
5 interface, and the pollution information message having at least the unique
6 identification code of the transceiver;
7 a memory having data, the data including at least an identification code
8 corresponding to the transceiver's unique identification code;
9 a processor coupled to the interface and the memory, and configured to
10 associate the received pollution information message and the data by associating the
11 unique identification code of the transceiver with the identification code of the data.

1 14. The system of claim 13, further comprising a connection coupled to the
2 processor and configured to communicate information corresponding to the pollution
3 information message and the associated data such that information associated with a
4 pollution event is communicated.

1 15. The system of claim 14, wherein the associated data further includes
2 information of interest that indicates the nature of a detected pollution event.

1 16. The system of claim 15, wherein the information of interest further
2 includes location information of the transceiver.

1 17. The system of claim 13, wherein the intermediary communication
2 system further comprises a portion of an Internet.

1 18. The system of claim 13, wherein the intermediary communication
2 system further comprises a portion of a digital communication system.

1 19. The system of claim 13, wherein the intermediary communication
2 system further comprises a portion of a public switched telephone network.

1 20. The system of claim 13, wherein the intermediary communication
2 system further comprises a combination of portions of at least an Internet, a digital
3 communication system and a public switched telephone network.

1 21. The system of claim 13, wherein the intermediary communication
2 system further comprises a combination of portions of at least an Internet and a public
3 switched telephone network.

1 22. The system of claim 13, wherein the intermediary communication
2 system further comprises a combination of portions of at least an Internet and a digital
3 communication system.

1 23. The system of claim 13, wherein the intermediary communication
2 system further comprises a combination of portions of at least a digital
3 communication system and a public switched telephone network.

1 24. A system which generates pollution information messages, comprising:
2 a transceiver configured to a signal from a detector configured to detect
3 pollution, the transceiver configured to transmit a pollution information message that
4 is communicated through a transceiver network; and
5 an identification code uniquely associated with the transceiver such that a
6 location of the detector is determined by associating the identification code with
7 information residing in a database that includes at least the location of the transceiver.

1 25. A method for communicating pollution information messages, the
2 method comprising the steps of:
3 generating a pollution information message with a transceiver, the pollution
4 information message having at least an identification code uniquely assigned to the
5 transceiver; and
6 communicating the pollution information message from the transceiver to a
7 network transceiver such that the pollution information message is communicated
8 over an intermediary communication system to a pollution monitoring management
9 controller.

1 26. The method of claim 25, further comprising the step of communicating
2 the pollution information message onto the intermediary communication system.

1 27. The method of claim 26, wherein the step of communicating the
2 pollution information message onto the intermediary communication system further
3 comprises the step of converting the pollution information message into a suitable
4 Internet signal, and wherein the intermediary communication system is a portion of an
5 Internet.

1 28. The method of claim 26, wherein the step of communicating the
2 pollution information message onto the intermediary communication system further
3 comprises the step of converting the pollution information message into a suitable
4 digital signal, and wherein the intermediary communication system is a portion of a
5 digital communication system.

1 29. The method of claim 26, wherein the step of communicating the
2 pollution information message onto the intermediary communication system further
3 comprises the step of converting the pollution information message into a suitable
4 telephone signal, and wherein the intermediary communication system is a portion of
5 a public switched telephone network.

1 30. The method of claim 26, wherein the step of communicating the
2 pollution information message onto the intermediary communication system further
3 comprises the step of converting the pollution information message into a suitable
4 Internet signal, and wherein the intermediary communication system is a portion of at
5 least an Internet, a digital communication system and a public switched telephone
6 network.

1 31. The method of claim 26, wherein the intermediary communication
2 system further comprises a combination of portions of at least an Internet and a public
3 switched telephone network.

1 32. The method of claim 26, wherein the intermediary communication
2 system further comprises a combination of portions of at least an Internet and a digital
3 communication system.

1 33. The method of claim 26, wherein the intermediary communication
2 system further comprises a combination of portions of at least a digital
3 communication system and a public switched telephone network.

1 34. The method of claim 25, further comprising the step of receiving a
2 signal from a detector configured to detect pollution such that the step of generating
3 the pollution information message is made in response to the step of receiving the
4 signal from the detector.

1 35. The method of claim 25, further comprising the step of receiving a
2 signal from a mobile detector configured to detect pollution such that the step of
3 generating the pollution information message and such that a location of the mobile
4 detector is approximated by location information associated with the identification
5 code of the transceiver.

1 36. A method for communicating pollution information messages, the
2 method comprising the steps of:

3 receiving a pollution information message broadcasted from a transceiver, the
4 pollution information message having at least an identification code uniquely assigned
5 to the transceiver;

6 determining information relevant to the received pollution information
7 message by associating the information with the identification code of the transceiver;
8 and

9 communicating the pollution information message and the relevant
10 information such that a person is made aware of the received pollution information
11 message.

1 37. The method of claim 36, wherein the step of determining information
2 further includes the step of determining a location of the transceiver by associating an
3 address residing in a database with the identification code of the transceiver.

1 38. The method of claim 36, wherein the step of determining information
2 further includes the step of determining information regarding the nature of the
3 pollution information by associating information residing in a database with the
4 identification code of the transceiver.

1 39. The method of claim 36, wherein the step of determining information
2 further includes the step of determining a person to be contacted by associating
3 information in a database regarding the person with the identification code of the
4 transceiver.

1 40. The method of claim 36, wherein the step of determining information
2 further includes the step of determining a nature of a pollution discharge by
3 associating information residing in a database regarding a detector configured to
4 detect pollution coupled to the transceiver with the identification code of the
5 transceiver.

1 41. The method of claim 36, further comprising the steps of:
 2 receiving a second pollution information message from a second transceiver;
 3 and
 4 determining information relevant to the received second pollution information
 5 message by associating the information with the identification code of the second
 6 transceiver.

1 42. The method of claim 36, further comprising the step of communicating
 2 the second pollution information message and the relevant information such that a
 3 person is made aware of the received second pollution information message.

1 43. A system for communicating pollution information messages,
 2 comprising:
 3 means for generating a pollution information message with a transceiver, the
 4 pollution information message having at least an identification code uniquely assigned
 5 to the transceiver; and
 6 means for communicating the pollution information message from the
 7 transceiver to a network transceiver such that the pollution information message is
 8 communicated over an intermediary communication system to a pollution monitoring
 9 management controller.

1 44. The system of claim 43, further comprising means for communicating
 2 the pollution information message onto the intermediary communication system.

1 45. The system of claim 44, further comprising means for converting the
 2 pollution information message into a suitable Internet signal, and wherein the
 3 intermediary communication system is a portion of an Internet.

1 46. The system of claim 44, further comprising means for converting the
 2 pollution information message into a suitable digital signal, and wherein the
 3 intermediary communication system is a portion of a digital communication system.

1 47. The system of claim 44, further comprising means for converting the
2 pollution information message into a suitable telephone signal, and wherein the
3 intermediary communication system is a portion of a public switched telephone
4 network.

1 48. The system of claim 44, further comprising means for converting the
2 pollution information message into a suitable Internet signal, and wherein the
3 intermediary communication system is a portion of at least an Internet, a digital
4 communication system and a public switched telephone network.

1 49. The system of claim 43, further comprising means for receiving a
2 signal from a pollution detecting device such that the means for generating the
3 pollution information message generates the pollution information message in
4 response to receiving the signal from the pollution detecting device.

1 50. A system for communicating pollution information messages,
2 comprising:
3 means for receiving a pollution information message broadcasted from a
4 transceiver, the pollution information message having at least an identification code
5 uniquely assigned to the transceiver;
6 means for determining information relevant to the received pollution
7 information message by associating the information with the identification code of the
8 transceiver; and
9 means for communicating the pollution information message and the relevant
10 information such that a person is made aware of the received pollution information
11 message.

1 51. The system of claim 50, wherein the means for determining
2 information further includes means for determining a location of the pollution
3 information message transceiver by associating an address residing in a database with
4 the identification code of the transceiver.

1 52. The system of claim 50, wherein the means for determining
2 information further includes means for determining a nature of a pollution discharge
3 by associating information residing in a database regarding a pollution detecting
4 device coupled to the transceiver with the identification code of the transceiver.

1 53. A computer readable medium having a program for communicating
2 pollution information messages, the program comprising logic configured to perform
3 the steps of:
4 analyzing a pollution information message broadcasted from a transceiver, the
5 pollution information message having at least an identification code uniquely assigned
6 to the transceiver;
7 determining information relevant to the received pollution information
8 message by associating the information with the identification code of the transceiver;
9 and
10 generating a second pollution information message having the pollution
11 information message and the relevant information such that a person is made aware of
12 the received pollution information message.